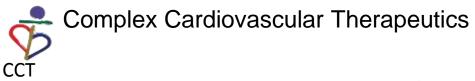


# A Case from CCT 2014: RCA CTO lesion which was successfully treated via reverse CART technique

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## Case

Patient : 68 Male

Diagnosis : Effort angina (CCS 2)

Coronary Risk Factor : HT, DLp, DM

e GFR: 68.1

LVEF: 70% (UCG)

Present Illness : Effort angina from several years ago. CAG: 3VD. PCI for LAD and LCX were performed. PCI for RCA CTO was attempted in April, however it was failed due to large dissection and oozing rupture at the occlusion site.

### **S** CCT

# Baseline angiograms: RCA





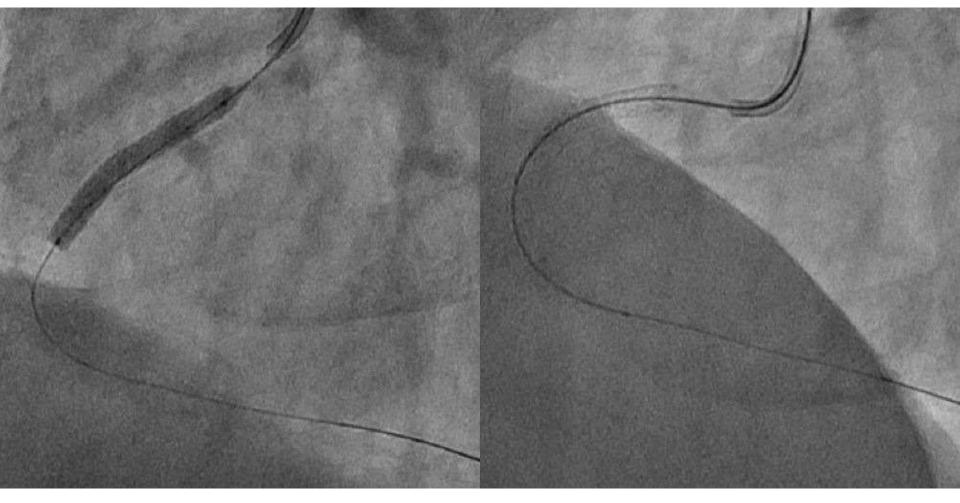
## First attempt for RCA CTO



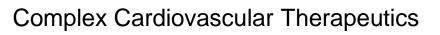
Lesion was successfully crossed using a Wizard 3, a hydrophilic polymer jacket moderate weight guide wire

ССТ

# Stenting to proximal RCA

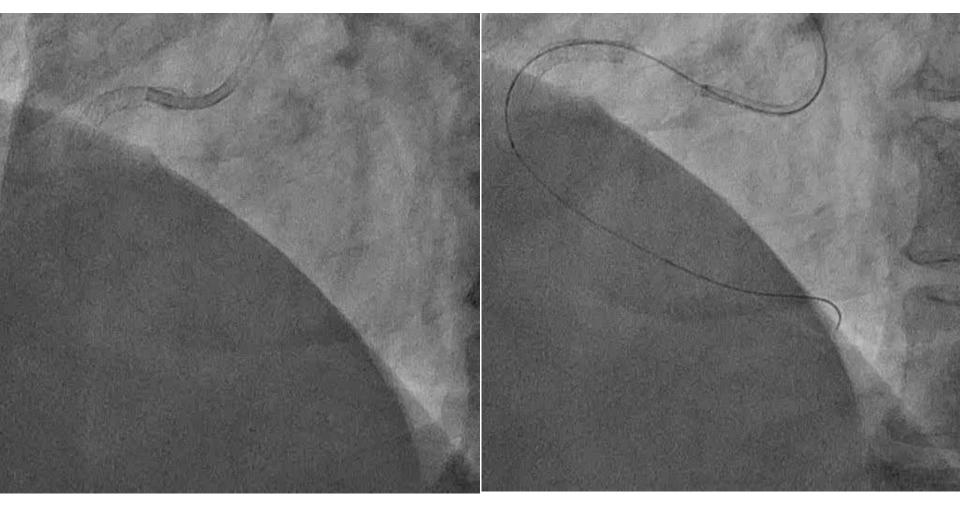


Micro catheter and balloon



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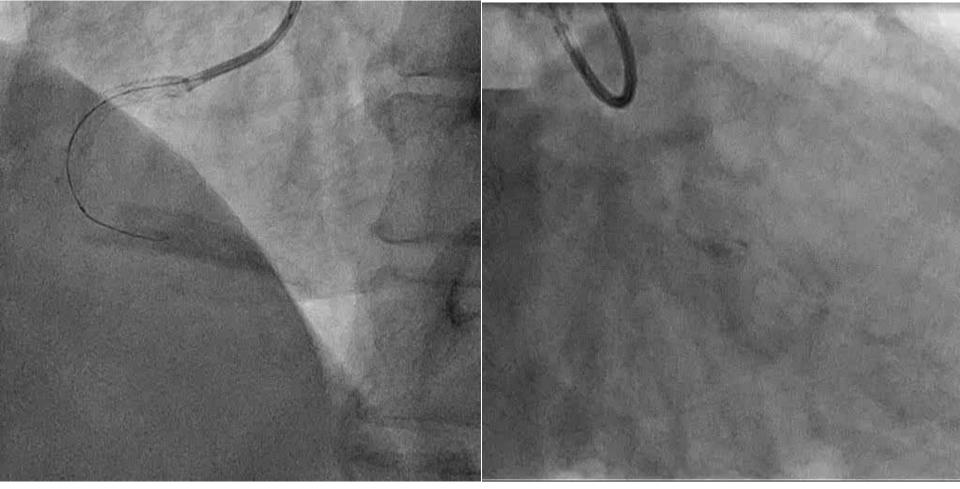
### Break down the system











Worsening dissection, Procedure eventually failed.

# Second attempt

Which approach is feasible?

Re-attempt via Antegradely

Primary retrograde

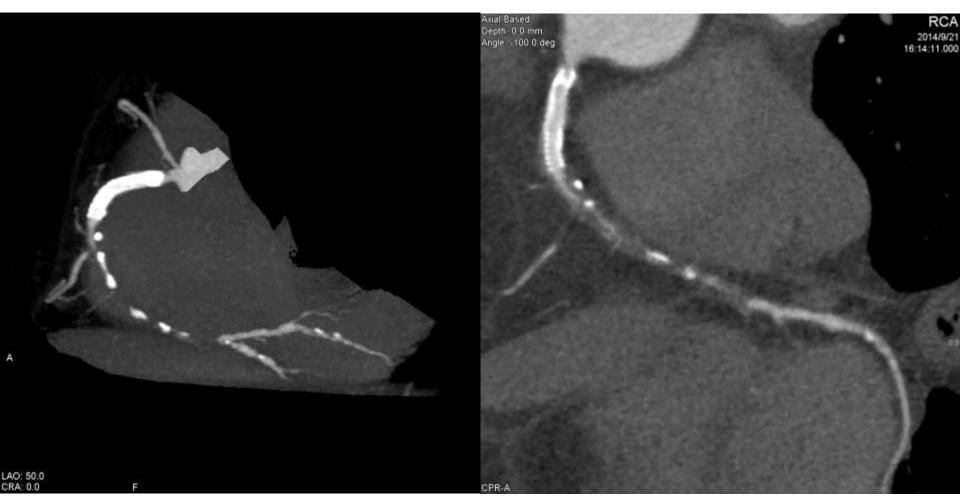
CCI

If retrograde, which channel is appropriate? Epicardial atrial channel Septal channel

Where is the optimal position for reverse CART?

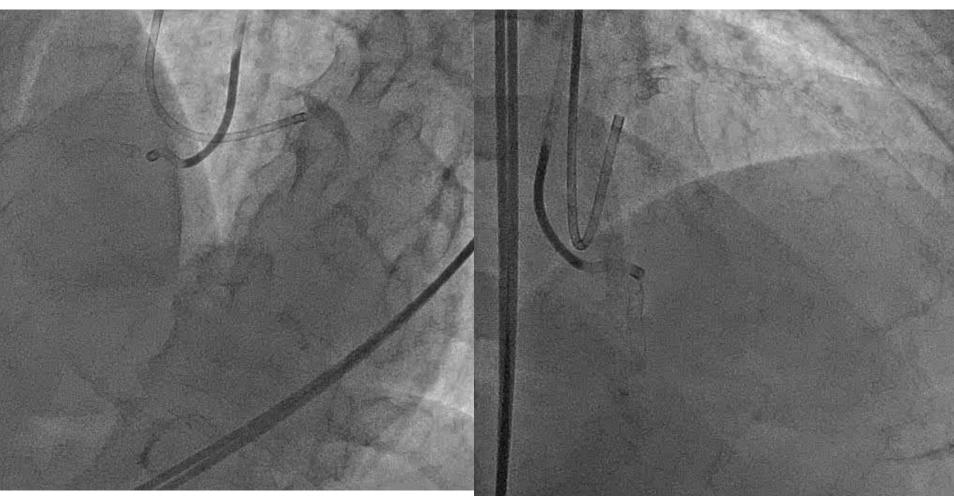






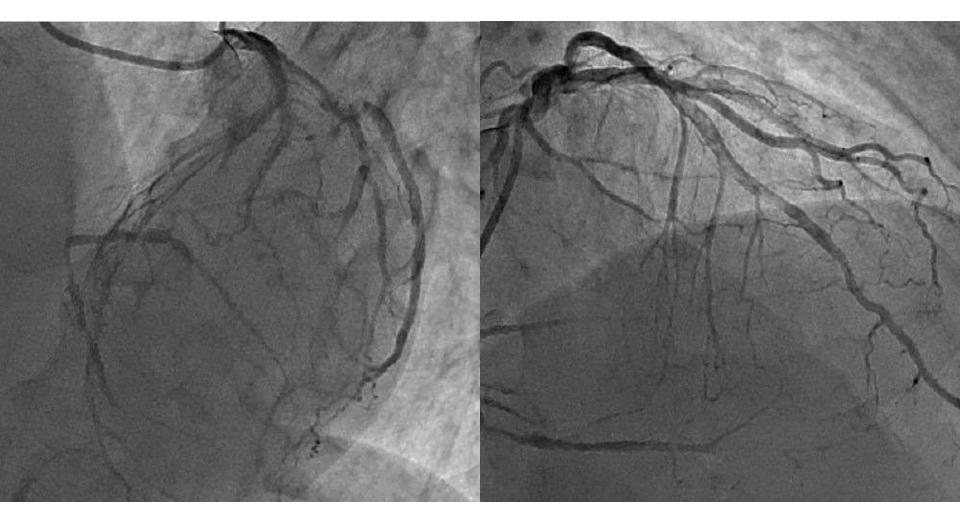
Spot calcium. Sub epicardial hematoma?





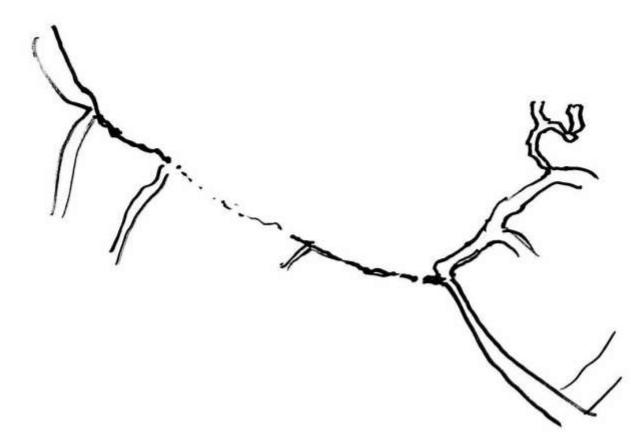
Bi TFA. 8Fr. Hyperion AL1 SH. 7Fr. Hyperion SPB 3.75.



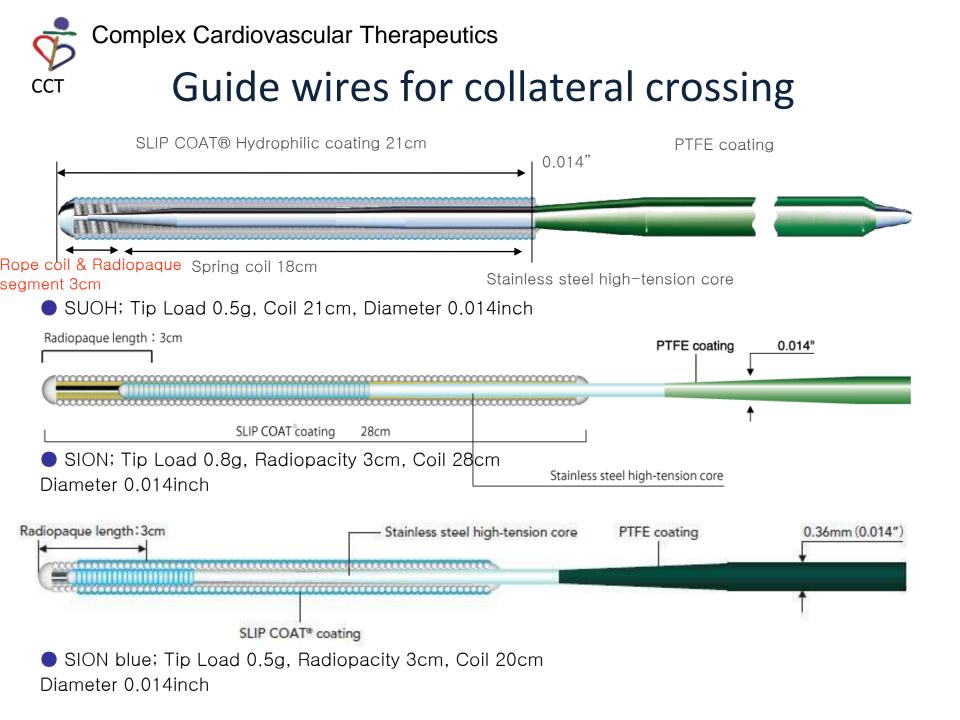


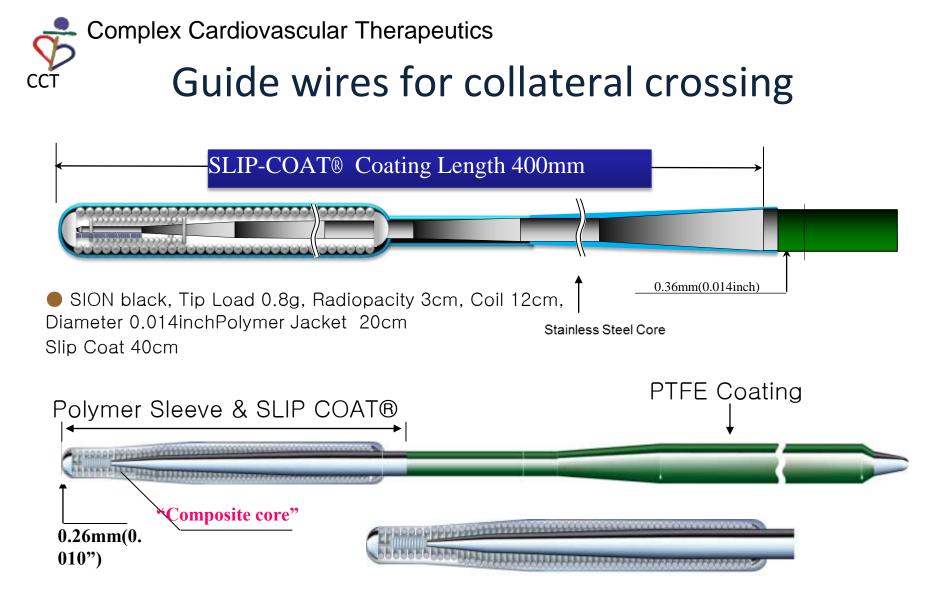
Atrial channel to PL, Septal channel to PD, 1st septal stent jailed.



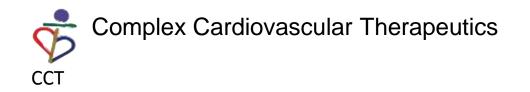


Very sharp angle between PL branch and main RCA.



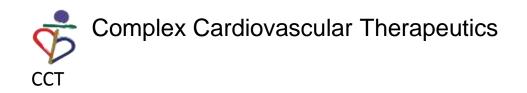


Fielder XTR, Tip Load 0.6g, Radiopacity 16cm, Coil 16cm, Diameter 0.014inch, Tip diameter 0.010 inch Polymer Jacket



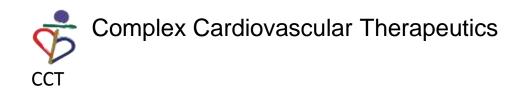


1st septal channel



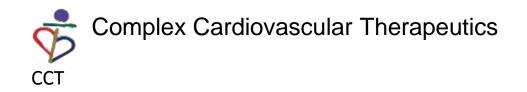


#### Crossing the channel using SION



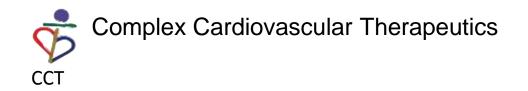


Advancing retrograde wire



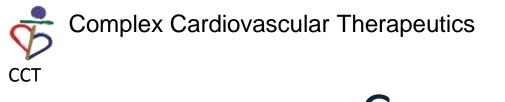


#### Advancing antegrade wire





#### Further advancement of retrograde wire



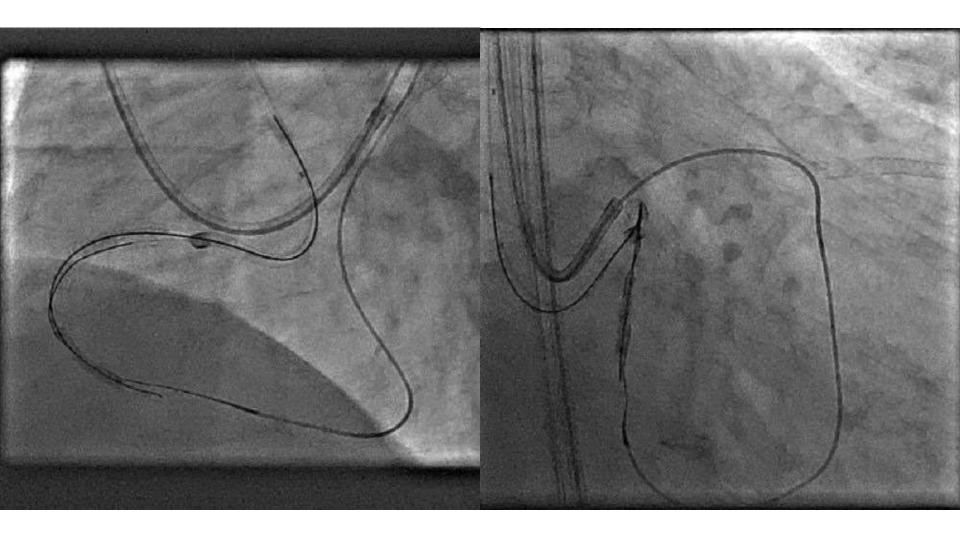
## Crusade

### Multifunction Catheter having two Guide wire lumen (RX / OTW)



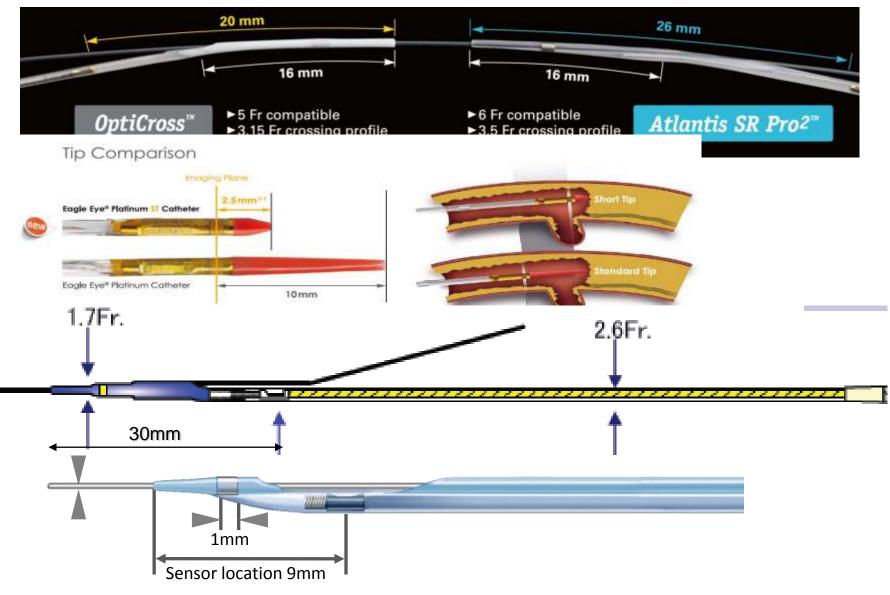
Originally manufactured for side branch access to help for GW manipulation in bifurcation stenting procedure





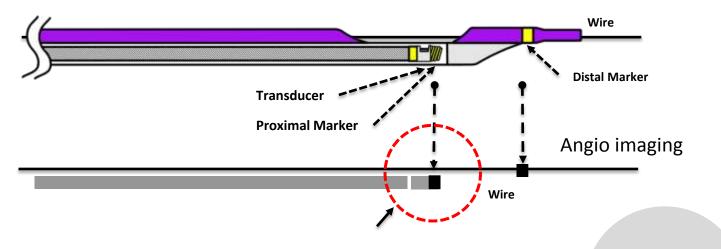
ССТ

### **IVUS** catheters



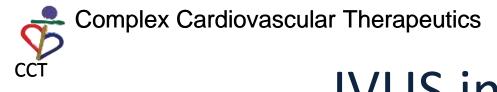
CCT

# Navifocus WR IVUS catheter

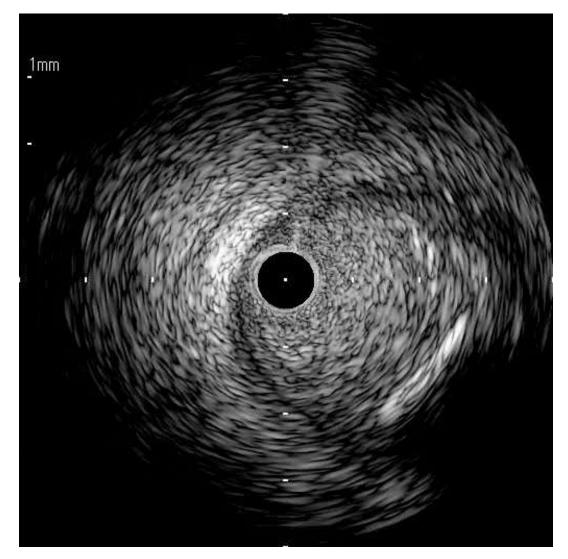


Constant location between guide wire which was fixed at

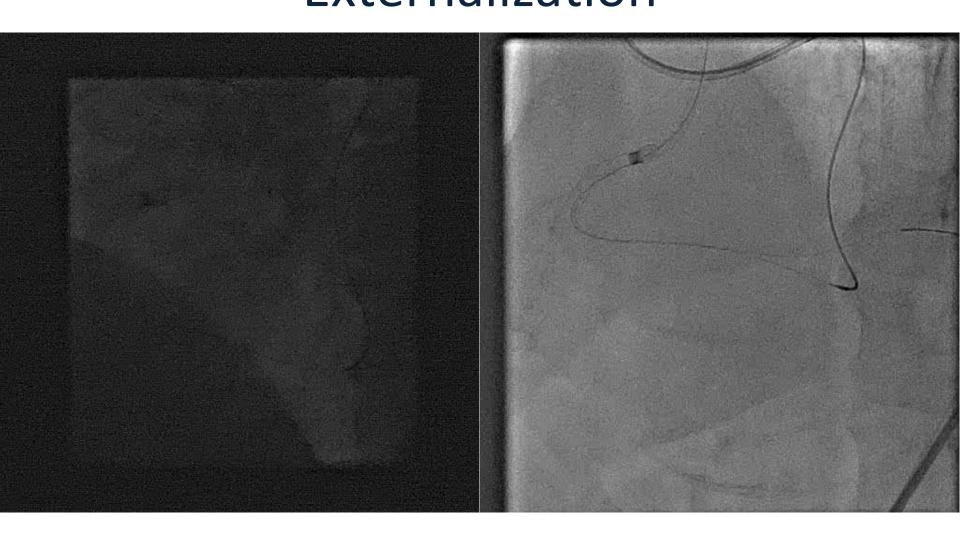
the transducer site within the 2<sup>nd</sup> monorail lumen



## **IVUS** image

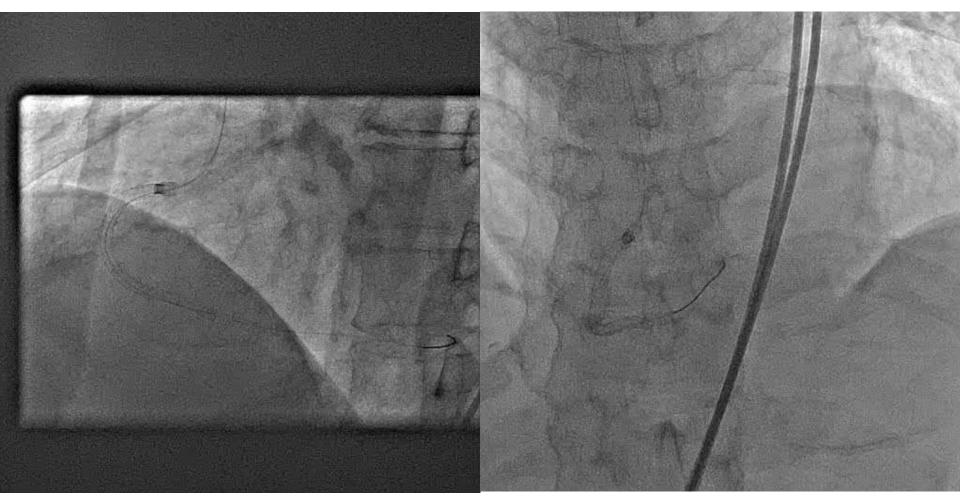


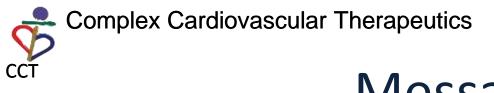






# Final angiograms





### Message

First attempt made a large dissection and oozing rupture.

Second attempt was successful via reverse CART technique using support devices, such as Guidezilla, Crusade and Navifocus WR IVUS catheter.